Safety Data Sheet (SDS)

Revision Number: 1.1	Last updated: April 2015	
1. Product and Company Iden	<u>ification</u>	
Product Name:	AnaTag TM AMCA-X Protein Labeling Kit	
Manufacturer/Supplier:	AnaSpec, Inc. www.anaspec.com 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com	
Catalog Number	AS-72055	
Unit Size	1 kit	

2. Hazards Identification

Emergency Overview:

GHS Hazard Classification:

GHS Physical Hazards

Component D: Flammable liquid (Category 4)

Other Components: Not Applicable

GHS Health and Environmental Hazards

Component A: Not Applicable Component B and C: Irritant to eyes

Component D and E: Irritants to eyes and skin

Component F and G:Not Applicable

GHS Signal Words:

Component D: Warning

Other Components: Not Applicable

GHS Hazard Statements:

Component A,B,C,F,G: None

Component D: H227 Combustible liquid

Component E: H303 May be harmful if swallowed.

GHS Precautionary Statements: None

HMIS Classification:

Component A:	Component B: Component C:		Component D:	Component E,F,G:
Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0
Flammability: 0	Flammability: 0	Flammability: 0	Flammability: 2	Flammability: 0
Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0

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NFPA Rating:

Component A: Component B:		Component C:	Component D:	Component E,F,G:
Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0
Fire: 0	Fire: 0	Fire: 0	Fire: 2	Fire: 0
Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0

3. Composition / Information on Ingredients

Ingredients/Components:

Chemical Name:	Description	CAS Number:
Component A	Proprietary	N/A
Component B	Proprietary	N/A
Component C	Polyacrylamide-co-methylene-bis-acrylamide	25034-58-6
Component D	DMSO	67-68-5
Component E	Proprietary	NA
Component F and G	Wash tube and Collection tube	NA

4. First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Component A,F and G: Not Applicable

Component B

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a

physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Skin: Wash off with soap and plenty of water. Eyes: Flush eyes with water as a precaution.

Component C

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a

physician.

Ingestion: Induce vomiting and call for medical help.

Skin: Generally this component does not irritate the skin

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes.

Component D

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a

physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth

with water. Consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Eyes: Flush eyes with water as a precaution.

Component E

Inhalation: Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

Skin: Rinse with	nlenty of wa	ter. If symptoms arise, call a physician.		
	- •	plenty of water, also under the eyelids, for at least 15 minutes. If symptoms		
	a physician.	• •		
5. Fire Fighting Measu	- •			
Extinguishing media:		Component A, F and G: Not Applicable		
0 0		Component B: Use water spray, alcohol-resistant foam, dry chemical or		
		carbon dioxide.		
		Component C: CO2, extinguishing powder or water spray. Fight larger fires		
		with water spray or alcohol resistant foam		
		Component D: For small fires, use alcohol resistant foam, dry chemical, or		
		carbon dioxide. For large fires, use water spray from a safe distance.		
		Component E: Water spray. Carbon dioxide (CO2). Foam. Dry chemical.		
Special firefighting proce	dures:	Component A,F and G: Not Applicable		
		Component B: Wear self-contained breathing apparatus for firefighting if		
		necessary.		
		Component C: No special measures required		
		Component D: Fire fighters should wear positive pressure self-contained		
		breathing apparatus (SCBA) and full turnout gear.		
		Component E: Wear self-contained breathing apparatus and protective		
		Suit.		
Unusual fire and explosion	ons hazards:	Component D: Combustible liquid and vapor. Vapors are heavier than air		
		and may travel to a source of ignition and flash back. Vapors can spread		
		along the ground and collect in low or confined areas. Hazardous carbon		
		oxides and sulphur oxides formed under fire conditions.		
		Other Components: None		
6. Accidental Release M	easures			
Containment and spill		ent A , F and G: Not Applicable		
response		ent B: Keep in suitable, closed containers for disposal.		
- · · · · · ·	_	ely contact emergency personnel. Prevent further leakage or spillage if safe to		
		oid breathing vapors or mist. Remove all sources of ignition and provide		
		n. Collect with an electrically protected vacuum cleaner, by wet-brushing, or		
		sing with vermiculite, sand or earth, and place in appropriate container for		
		Do not let material enter drains.		
	-	ent C: Wear protective equipment. Keep unprotected persons away.		
	_	ent D : Immediately contact emergency personnel. Prevent further leakage or		
	_	f safe to do so. Avoid breathing vapors or mist. Remove all sources of		
		nd provide ventilation. Collect with an electrically protected vacuum cleaner,		
	-	ushing, or by absorbing with vermiculite, sand or earth, and place in		
		te container for disposal. Do not let material enter drains.		
		ent E: Soak up with inert absorbent material		
PPE	Use perso	onal protective equipment		
	l			
7. Handling and Stora	age			
 				

Component A, C: Keep in dry place.

Component B: Keep container tightly closed in a dry and well-ventilated place.

Component D: Handling: Wash thoroughly after handling. Remove and wash any contaminated clothing. Keep container tightly closed and avoid contact with eyes, skin, and clothing. Use with adequate ventilation and avoid ingestion and inhalation. Keep away from heat and flame.

Storage: Store in a tightly closed container away from moisture, heat, and flame. Store away from incompatible substances. Storage under a nitrogen blanket has been recommended.

Component E:

Handling: Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

standards such as NIOSH (US) or EN 166(EU).

Storage: Keep in a dry, cool and well-ventilated place.

8. Exposure Contro	ols / Personal Protection				
Engineering controls	Component A,F and G: Not Applicable				
	Component C: Facilities storing and using this material should be equipped with a safety				
	shower and eyewash station.				
	Component B: Facilities storing and using this material should be equipped with a safety				
	shower and eyewash station.				
	Component D: Facilities storing and using this material should be equipped with a safety				
	shower and eyewash station. Adequate ventilation should also be present.				
	Component E: Ensure adequate ventilation, especially in confined areas				
PPE	Component A ,B:				
	Respiratory System: Respiratory protection not required				
	Hands: Handle with gloves. Gloves must be inspected prior to use. Use proper glove				
	removal technique (without touching glove's outer surface) to avoid skin contact with this				

product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Eyes: Use equipment for eye protection tested and approved under appropriate government

Skin and body protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Component C:

The usual precautionary measures of handling chemicals should be followed

Hands: Protective gloves

Eyes: Safety glasses.

Component D:

Respiratory System: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Skin and Body: Wear appropriate work uniform or laboratory coat to prevent skin exposure. Hands: Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves.

Eyes: Wear chemical splash goggles.

Component E:

Respiratory System: In case of insufficient ventilation wear suitable respiratory equipment. Skin and Body: Lightweight protective clothing.

Hands: Impervio					
Eyes: Safety glasses with side-shields Component F and G: None					
9. Physical and Chemical Properties					
Physical State	Component A,C,F and G-Solid Component B, D and E-Liquid				
Odo	Not determined				
Solubility in Water	Soluble				
Specific Gravity	Not determined				
рН	Component B -9				
	Component C-7				
	Component E -7.3				
Boiling Point	Not determined				
Melting Point	Not determined				
Flash Point	Not determined				
Vapor Pressure:	Not determined				
Vapor Density:	Not determined				
10.Stability and Reactivity					
	lax				
Thermal Decomposition	Not applicable				
Dangerous Products of Decomposition	Not Applicable				
Dangerous Reactions	Not Applicable				
11.Toxicological Information					
RTECS Number	Component A.B,C: NA				
	Component D: PV6210000				
	Component E,F, G: NA				
Toxicity	Component D contains DMSO.				
	For DMSO				
	Oral LD50 LD50 Oral - rat - 14,500 mg/kg				
	Inhalation LC50				
	LC50 Inhalation - rat - 4 h - 40250 ppm				
	Dermal LD50				
	LD50 Dermal - rabbit - > 5,000 mg/kg				
Health Hazards	No data available				
Potential Hazards	vrds None				
Carcinogenicity:	No data available				
OSHA Permissible Exposure Limit(PEL) Data	No data available				
ACGIH Threshold Limit Values (TLV)	No data available				

12. Ecological Information

Component C: Water hazard class 1 (German Regulation): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Component D: For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5

Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 34,000 mg/l - 96 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l

Toxicity to algae EC50 - Lepomis macrochirus (Bluegill) - > 400,000 mg/l - 96 h

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. Disposal Considerations

Component C: Hand over to hazardous waste disposers

Component D: For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. Transport Information:

UN Number	N/A
Hazard Class	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A
15. Regulatory information	
California Proposition 65:	None
US TSCA (Toxic Substance Control Act):	Component A,B,C: Not listed
	Component D: Listed

Component E,F,G: Not listed

US CERCLA (Comprehensive Environmental
Response, Compensation, and Liability Act:

Component A,B,C: N/A
Component D: 261.33 8(d).
Component E,F,G: N/A

US SARA Title III		_	nt A,B,C, E,F			
			SARA 302 components: N/A			
		SARA 313	SARA 313 components: N/A			
		SARA 311	1/312 Hazards: N/A			
		Compone	nt D			
			2 components: N/A			
		SARA 313	3 components: N/A			
		SARA 311	1/312 Hazards: Fire Hazard, Chronic	: Health Hazard		
US Clean Air Act:	US Clean Air Act: Component A, B, C, D, E,F,G					
		Listed und	Listed under Hazardous Air Pollutants: Not listed			
		Listed und	ler Class 1 Ozone Depletors: Not list	ted		
		Listed und	ler Class 2 Ozone Depletors: Not list	ted		
US Clean Water Act:		Compone	nt A, B, C, D,E,F and G			
		Listed und	er "Hazardous Substances": Not list	ed		
		Listed und	Listed under "Priority Pollutants": Not listed			
		Listed und	Listed under "Toxic Pollutants": Not listed			
US States: Right-to-	-Know: Listed in the	following States:				
Component A:	Component B:	Component C:	Component D:	Component E,F,G:		
			Donneylyonio			

Component A:	Component B:	Component C:	Component D:	Component E,F,G:	
			Pennsylvania		
N/A	N/A	N/A	Revision Date 2007-03-01	N/A	
			New Jersey		
N/A	N/A	N/A	Revision Date 2007-03-01	N/A	
N/A	N/A	N/A	N/A	N/A	

European/International Regulations:

	Component A	Component B	Component C	Component D	Component E,F,G	
EC EINICS	N/A	N/A	N/A	200-664-3	N/A	
EC Risk statements	N/A	N/A	N/A	36/37/38	N/A	
WGK	N/A	N/A	N/A	1	N/A	
Canada-	Not listed	Not listed	Not listed	Listed	Not listed	
DSL/NDSL						
Canada-	N/A	D2B	D2B	D2B	N/A	
WHMIS classification						
Canada-	Not Listed	Not Listed	Not Listed	Listed	Not Listed	
Canadian Ingredient						
Disclosure List						

16. Other Information

It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.